

**Flood Control Project Maintenance  
Levee Inspections**

**Fall 2009 Levee Maintenance Deficiency Summary Report**

**Overall LMA & Unit Ratings, including USACE Erosion Survey**

**Sacramento River Basin**

<b>RD0003</b>	Overall LMA Rating	Total LMA Miles	* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.			
<b>Reclamation District No. 0003 Grand Island</b>	<b>M *</b>	<b>28.65</b>				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
Vegetation		0.01	0.04	0.14%		
Trim / Thin Trees	0.55	0.11	0.99	3.46%		
Encroachments	0.01		0.01	0.04%	0.58	0.64
USACE Erosion Survey	0.29		0.29	1.01%		
<i>LMA Totals:</i>	0.85	0.12	1.33	4.64% *	0.58	0.64

<b>Unit No. 01 Left Bank Steamboat Slough</b>	Overall Unit Rating	Total Unit Miles				
	<b>A</b>	<b>11.03</b>				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
Trim / Thin Trees	0.13		0.13	1.18%		
Encroachments	0.01		0.01	0.09%	0.10	0.25
USACE Erosion Survey	0.20		0.20	1.81%		
<i>Unit Totals:</i>	0.34	0.00	0.34	3.08%	0.10	0.25

<b>Unit No. 02 Right Bank Sacramento River</b>	Overall Unit Rating	Total Unit Miles	* Overall Unit Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall Unit Rating is M instead of A.			
	<b>M *</b>	<b>17.62</b>				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
Vegetation		0.01	0.04	0.23%		
Trim / Thin Trees	0.42	0.11	0.86	4.88%		
Encroachments					0.48	0.39
USACE Erosion Survey	0.09		0.09	0.51%		
<i>Unit Totals:</i>	0.51	0.12	0.99	5.62% *	0.48	0.39

**Flood Control Project Maintenance  
Levee Inspections**  
**LMA District Cover Sheet**  
**Fall 2009 Levee Inspection Results**

**Reclamation District No. 0003 Grand Island**

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	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			M	

\*\* Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

\*  
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.

Comments


**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2009 Levee Inspection Results**

**Reclamation District No. 0003 Grand Island**

Waterway			Bank	Unit Miles
Unit No. 01 Left Bank Steamboat Slough			Left	11.03
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>A</b>	
Date of Inspection	3/30/2009		11/4/2009	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By			Michael Moncrief MBK	

Check one:

- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.
- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. In addition to the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the report, we have found the following changes in flood project conditions.

(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

**Comments**

One of the boxes above is to be checked by the Local Maintaining Agency (LMA). If the second box is checked, additional information must also be submitted. This Unit Cover Sheet should be signed and dated by the LMA Representative and returned to DWR with any additional sheets by September 30 (Summer Inspection) or March 31 (Winter Inspection). Please retain a copy for your records. Please mail all of this information to :

DWR Summer/Winter Inspection Reports  
3310 El Camino Avenue, Room LL-30  
Sacramento, CA 95821-9000

**X**

Signature of LMA Representative

Date

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2009**

**Reclamation District No. 0003 Grand Island**

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 01 Left Bank Steamboat Slough						Left	11.03	11/20/2009 11/20/2009	Richard Willoughby	
LMR No	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.18	0.24	Supplemental	USACE Erosion Survey	WS	M	Inspector Comments: tree hazards	38.303083 ° -121.577387 °	38.302623 ° -121.578325 °	967
2	0.21	0.21	Earthen Levee	Encroachments	WS	C	Tree or limb	38.302632 ° -121.577672 °	38.302632 ° -121.577672 °	5
3	0.22	0.33	Earthen Levee	Encroachments	WS	CO	Landscaping	38.302530 ° -121.577848 °	38.301424 ° -121.579113 °	6 Y
4	0.42	0.46	Earthen Levee	Vegetation	WS	C	Remove the wild growth other than native grasses from the levee slopes.	38.300155 ° -121.579647 °	38.299666 ° -121.579984 °	970
5	0.50	0.52	Earthen Levee	Trim / Thin Trees	WS	C	Trim trees to at least five feet above ground level.	38.299165 ° -121.580345 °	38.298922 ° -121.580502 °	8
6	0.58	0.58	Earthen Levee	Encroachments	WS	C	Tree or limb	38.298127 ° -121.580827 °	38.298127 ° -121.580827 °	9
7	0.60	0.60	Earthen Levee	Encroachments	LS	C	Prunings	38.297773 ° -121.580934 °	38.297773 ° -121.580934 °	28
8	0.68	0.68	Earthen Levee	Encroachments	WS	C	Tree or limb	38.296680 ° -121.581133 °	38.296680 ° -121.581133 °	29
9	0.88	0.98	Supplemental	USACE Erosion Survey	WS	M	Inspector Comments: tree hazards	38.293387 ° -121.580012 °	38.292683 ° -121.582918 °	965
10	1.03	1.03	Earthen Levee	Encroachments	LS	C	Prunings	38.291880 ° -121.582702 °	38.291880 ° -121.582702 °	11
11	1.08	1.09	Earthen Levee	Trim / Thin Trees	LS	M	Trim and thin trees to allow visibility of the ground and room to flood fight.	38.291055 ° -121.582765 °	38.290898 ° -121.582777 °	12 Y
12	1.21	1.27	Earthen Levee	Encroachments	LS	CO	Landscaping	38.289210 ° -121.582770 °	38.288390 ° -121.582818 °	13 Y
13	1.29	1.31	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	38.288052 ° -121.582817 °	38.287825 ° -121.582852 °	14
14	1.45	1.45	Supplemental	USACE Erosion Survey	WS	M	Inspector Comments: tree hazards, caves	° °	° °	964
15	1.60	1.62	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.284807 ° -121.586333 °	38.284610 ° -121.586607 °	15
16	1.64	1.66	Earthen Levee	Encroachments	LS	PO	Landscaping	38.284422 ° -121.586893 °	38.284177 ° -121.587208 °	16
17	1.71	1.71	Earthen Levee	Encroachments	WS	C	Tree or limb	38.283551 ° -121.587783 °	38.283551 ° -121.587783 °	35
18	1.73	1.74	Earthen Levee	Encroachments	WS	C	Prunings	38.283432 ° -121.587877 °	38.283198 ° -121.588050 °	17

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected  
C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2009**

**Reclamation District No. 0003 Grand Island**

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough							Left	11.03	11/20/2009 11/20/2009	Richard Willoughby
LMR No	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
19	1.77	1.79	Earthen Levee	Encroachments	LS	C	Landscaping	38.282802 ° -121.588252 °	38.282615 ° -121.588297 °	18
20	2.11	2.11	Earthen Levee	Encroachments	LS	M	Material	38.278070 ° -121.589033 °	38.278070 ° -121.589033 °	974 Y
21	2.69	2.69	Earthen Levee	Encroachments	WS	C	Tree or limb	38.271021 ° -121.588606 °	38.271021 ° -121.588606 °	38
22	2.80	2.83	Supplemental	USACE Erosion Survey	WS	M	Inspector Comments: tree hazards	38.269282 ° -121.588964 °	38.268859 ° -121.588655 °	962
23	3.13	3.15	Earthen Levee	Encroachments	LS	CO	Landscaping	38.264902 ° -121.587193 °	38.264580 ° -121.587220 °	20
24	3.15	3.15	Earthen Levee	Encroachments	WS	C	Material	38.264605 ° -121.587201 °	38.264605 ° -121.587201 °	40
25	4.64	4.64	Earthen Levee	Encroachments	LS	C	Prunings	38.249725 ° -121.601045 °	38.249725 ° -121.601045 °	21
26	5.37	5.40	Earthen Levee	Encroachments	LS	PO	Landscaping	38.239276 ° -121.601899 °	38.238852 ° -121.602000 °	43
27	5.48	5.56	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.237690 ° -121.602231 °	38.236575 ° -121.602155 °	44
28	5.53	5.53	Earthen Levee	Encroachments	LS	PO	Landscaping	38.237000 ° -121.602208 °	38.237000 ° -121.602208 °	45
29	5.79	5.79	Earthen Levee	Encroachments	LS	CO	Landscaping	38.233421 ° -121.601389 °	38.233421 ° -121.601389 °	48
30	5.79	5.81	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	38.233337 ° -121.601374 °	38.233078 ° -121.601302 °	49
31	5.81	5.81	Earthen Levee	Encroachments	WS	C	Tree or limb	38.233044 ° -121.601313 °	38.233044 ° -121.601313 °	50
32	7.08	7.10	Earthen Levee	Encroachments	LS	PO	Landscaping	38.215490 ° -121.604700 °	38.215355 ° -121.604793 °	23 Y
33	7.81	7.83	Earthen Levee	Encroachments	WS	PO	Landscaping	38.205964 ° -121.609576 °	38.205733 ° -121.609608 °	971 Y
34	7.95	8.00	Earthen Levee	Encroachments	LS	CO	Landscaping	38.203945 ° -121.609932 °	38.203283 ° -121.610025 °	25 Y
35	8.47	8.50	Earthen Levee	Encroachments	LS	C	Landscaping	38.197027 ° -121.613093 °	38.196635 ° -121.613390 °	26
36	8.94	8.94	Earthen Levee	Encroachments	LS	C	Prunings	38.193215 ° -121.620093 °	38.193215 ° -121.620093 °	972

**\* Location**

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2009**

**Reclamation District No. 0003 Grand Island**

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough						Left	11.03	11/20/2009 11/20/2009	Richard Willoughby

  

LMR No	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
37	8.98	8.98	Earthen Levee	Encroachments	WS	C	Tree or limb	38.193005 ° -121.620666 °	38.193005 ° -121.620666 °	973
38	10.20	10.22	Earthen Levee	Trim / Thin Trees	LS	M	Trim and thin trees to allow visibility of the ground and room to flood fight.	38.188613 ° -121.641175 °	38.188388 ° -121.641485 °	27 Y

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2009**

**Reclamation District No. 0003 Grand Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough	Left	11.03	11/20/2009 11/20/2009	Richard Willoughby

Levee Mile Report Line	3
Start Levee Mile	0.22
End Levee Mile	0.33
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Dense landscaping on waterside from LM 0.22 to 0.28

richard\_20091104\_1.jpg



Levee Mile Report Line	3
Start Levee Mile	0.22
End Levee Mile	0.33
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Looking upstream at dense landscaping on waterside slope from LM 0.22 to 0.28

richard\_20091104\_2.jpg



Levee Mile Report Line	11
Start Levee Mile	1.08
End Levee Mile	1.09
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Down tree limbs on landside slope from LM 1.08 to 1.09

richard\_20091104\_4.jpg



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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2009**

**Reclamation District No. 0003 Grand Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough	Left	11.03	11/20/2009 11/20/2009	Richard Willoughby

Levee Mile Report Line	12
Start Levee Mile	1.21
End Levee Mile	1.27
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Landscaping on landside slope block view of levee from LM 1.21 to 1.27

richard\_20091104\_5.jpg



Levee Mile Report Line	20
Start Levee Mile	2.11
End Levee Mile	2.11
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking northeast at concrete rubble at landside shoulder and ramp.

richard\_20091123\_119.jpg



Levee Mile Report Line	20
Start Levee Mile	2.11
End Levee Mile	2.11
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking north at equipment and storage containers at landside toe.

richard\_20091123\_120.jpg



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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2009**

**Reclamation District No. 0003 Grand Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough	Left	11.03	11/20/2009 11/20/2009	Richard Willoughby

Levee Mile Report Line	32
Start Levee Mile	7.08
End Levee Mile	7.10
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Large Cactus plant on landside shoulder block view of levee slope from LM 7.08 to 7.10

richard\_20091104\_6.jpg



Levee Mile Report Line	33
Start Levee Mile	7.81
End Levee Mile	7.83
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Front view of dense trees at landside toe.

richard\_20091104\_12.jpg



Levee Mile Report Line	33
Start Levee Mile	7.81
End Levee Mile	7.83
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Side view of dense trees at landside toe.

richard\_20091104\_13.jpg



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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2009**

**Reclamation District No. 0003 Grand Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough	Left	11.03	11/20/2009 11/20/2009	Richard Willoughby

Levee Mile Report Line	34
Start Levee Mile	7.95
End Levee Mile	8.00
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Landscaping (Ivy) on landside slope blocking view of levee from LM 7.95 to 8.00

richard\_20091104\_7.jpg



Levee Mile Report Line	38
Start Levee Mile	10.20
End Levee Mile	10.22
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Trees to be trimmed on landside shoulder from LM 10.20 to 10.22

richard\_20091104\_8.jpg



Levee Mile Report Line	38
Start Levee Mile	10.20
End Levee Mile	10.22
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Side view of trees on landside shoulder.

richard\_20091104\_9.jpg



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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2009 Levee Inspection Results**

**Reclamation District No. 0003 Grand Island**

Waterway			Bank	Unit Miles
Unit No. 02 Right Bank Sacramento River			Right	17.62
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>M</b>	
Date of Inspection	3/30/2009		11/4/2009	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

Check one:

- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.
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(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

**Comments**

One of the boxes above is to be checked by the Local Maintaining Agency (LMA). If the second box is checked, additional information must also be submitted. This Unit Cover Sheet should be signed and dated by the LMA Representative and returned to DWR with any additional sheets by September 30 (Summer Inspection) or March 31 (Winter Inspection). Please retain a copy for your records. Please mail all of this information to :

DWR Summer/Winter Inspection Reports  
3310 El Camino Avenue, Room LL-30  
Sacramento, CA 95821-9000

**X**

Signature of LMA Representative

Date



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2009**

**Reclamation District No. 0003 Grand Island**

Waterway					Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Right Bank Sacramento River					Right	17.62	11/20/2009 11/20/2009	Richard Willoughby

  

LMR No	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
1	0.39	0.39	Earthen Levee	Repair Gates	CR	A	Inspector Comments: Talk to District Engineer (Michael Moncrief) about the key issue he indicated he has a key from me.	38.173950 ° -121.647217 °	38.173950 ° -121.647217 °	1
2	1.43	1.43	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	38.170077 ° -121.629809 °	38.170077 ° -121.629809 °	946
3	1.52	1.52	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	38.169387 ° -121.628608 °	38.169387 ° -121.628608 °	947
4	1.79	1.79	Earthen Levee	Encroachments	WS	C	Prunings	38.167400 ° -121.624333 °	38.167400 ° -121.624333 °	4
5	1.88	1.92	Earthen Levee	Vegetation	WS	C	Remove the wild growth other than native grasses from the levee slopes.	38.166765 ° -121.622864 °	38.166561 ° -121.622309 °	69
6	1.93	1.98	Earthen Levee	Encroachments	WS	CO	Landscaping	38.166525 ° -121.622201 °	38.166176 ° -121.621332 °	70
7	2.69	2.75	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	38.164430 ° -121.609077 °	38.164660 ° -121.607218 °	5
8	2.75	2.80	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.164430 ° -121.609077 °	38.164725 ° -121.607141 °	951
9	3.27	3.29	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	38.167618 ° -121.599708 °	38.167793 ° -121.599442 °	6
10	3.75	3.86	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	38.172970 ° -121.594503 °	38.174333 ° -121.593465 °	7
11	3.87	3.87	Earthen Levee	Vegetation	LS	U	Control annual grass and weeds on the levee slopes and easements.	38.174430 ° -121.593372 °	38.174430 ° -121.593372 °	952
12	3.90	3.98	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.174817 ° -121.593110 °	38.175837 ° -121.592428 °	953
13	4.22	4.23	Earthen Levee	Encroachments	LS	C	Landscaping	38.178846 ° -121.590440 °	38.178975 ° -121.590336 °	93
14	4.25	4.35	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	38.179187 ° -121.590102 °	38.180373 ° -121.589135 °	8
15	4.36	4.42	Earthen Levee	Encroachments	LS	CO	Landscaping	38.180531 ° -121.589103 °	38.181330 ° -121.588480 °	92
16	4.75	4.79	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	38.185123 ° -121.585107 °	38.185580 ° -121.584657 °	9
17	4.93	5.09	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	38.187155 ° -121.583113 °	38.188693 ° -121.580892 °	10

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
PO : Partially Obstructing  
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N : Not Inspected  
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2009**

**Reclamation District No. 0003 Grand Island**

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 02 Right Bank Sacramento River						Right	17.62	11/20/2009 11/20/2009	Richard Willoughby	
LMR No	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
18	5.94	6.00	Earthen Levee	Encroachments	LS	CO	Landscaping	38.193552 ° -121.566933 °	38.193832 ° -121.565995 °	11 Y
19	6.00	6.00	Earthen Levee	Encroachments	LS	C	Landscaping	38.193841 ° -121.566021 °	38.193841 ° -121.566021 °	89
20	6.66	6.69	Earthen Levee	Encroachments	LS	CO	Landscaping	38.201255 ° -121.558977 °	38.201634 ° -121.558886 °	88
21	7.02	7.04	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.206363 ° -121.558520 °	38.206598 ° -121.558530 °	12 Y
22	7.79	7.82	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	38.217352 ° -121.558432 °	38.217683 ° -121.558368 °	13
23	9.13	9.13	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	38.235932 ° -121.559620 °	38.235932 ° -121.559620 °	14
24	9.18	9.18	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.236608 ° -121.559468 °	38.236608 ° -121.559468 °	15
25	9.35	9.45	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	38.238827 ° -121.558117 °	38.240018 ° -121.557053 °	16
26	9.47	9.53	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	38.240130 ° -121.556948 °	38.240853 ° -121.556247 °	17
27	9.53	9.79	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.240870 ° -121.556232 °	38.242473 ° -121.552207 °	18
28	9.83	9.97	Earthen Levee	Vegetation	LS	C	Remove the wild growth other than native grasses from the levee slopes.	38.242519 ° -121.551437 °	38.242274 ° -121.548848 °	86
29	10.13	10.13	Earthen Levee	Encroachments	LS	CO	Fences	38.241880 ° -121.546108 °	38.241880 ° -121.546108 °	19 Y
30	10.15	10.15	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	38.241793 ° -121.545640 °	38.241793 ° -121.545640 °	20
31	10.24	10.29	Earthen Levee	Encroachments	LS	PO	Landscaping	38.241551 ° -121.544035 °	38.241422 ° -121.543236 °	85
32	10.34	10.38	Earthen Levee	Trim / Thin Trees	LS	U	Trim trees to at least five feet above ground level.	38.241160 ° -121.542377 °	38.241005 ° -121.541618 °	22
33	10.71	10.73	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	38.239580 ° -121.535943 °	38.239480 ° -121.535508 °	23
34	10.87	10.87	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	38.238977 ° -121.533173 °	38.238977 ° -121.533173 °	24

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2009**

**Reclamation District No. 0003 Grand Island**

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 02 Right Bank Sacramento River						Right	17.62	11/20/2009 11/20/2009	Richard Willoughby	
LMR No	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
35	11.03	11.15	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	38.238778 ° -121.530237 °	38.239098 ° -121.528138 °	25
36	11.30	11.33	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	38.239702 ° -121.525415 °	38.239782 ° -121.524965 °	26
37	11.42	11.42	Earthen Levee	Encroachments	LS	C	Prunings	38.239917 ° -121.523265 °	38.239917 ° -121.523265 °	27
38	11.58	11.84	Earthen Levee	Trim / Thin Trees	WS	C	Trim trees to at least five feet above ground level.	38.240093 ° -121.520542 °	38.241842 ° -121.516445 °	28
39	11.63	11.73	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	38.240158 ° -121.519508 °	38.240752 ° -121.517918 °	29
40	11.96	11.98	Earthen Levee	Trim / Thin Trees	WS	C	Trim trees to at least five feet above ground level.	38.243145 ° -121.515005 °	38.243333 ° -121.514823 °	30
41	12.03	12.07	Earthen Levee	Encroachments	LS	CO	Landscaping	38.243915 ° -121.514254 °	38.244392 ° -121.513740 °	83
42	12.23	12.30	Earthen Levee	Trim / Thin Trees	LS	U	Trim trees to at least five feet above ground level.	38.246310 ° -121.512157 °	38.247332 ° -121.511773 °	31
43	12.33	12.40	Earthen Levee	Encroachments	LS	PO	Landscaping	38.247788 ° -121.511695 °	38.248682 ° -121.511657 °	32
44	12.47	12.47	Earthen Levee	Encroachments	LS	C	Prunings	38.249665 ° -121.511765 °	38.249665 ° -121.511765 °	33
45	12.48	12.55	Earthen Levee	Encroachments	LS	PO	Landscaping	38.249920 ° -121.511845 °	38.250808 ° -121.512152 °	34
46	12.60	12.63	Earthen Levee	Encroachments	LS	CO	Landscaping	38.251463 ° -121.512458 °	38.251873 ° -121.512678 °	35
47	12.77	12.85	Earthen Levee	Encroachments	LS	PO	Landscaping	38.253593 ° -121.513883 °	38.254590 ° -121.514862 °	37
48	12.79	12.88	Earthen Levee	Trim / Thin Trees	WS	C	Trim trees to at least five feet above ground level.	38.253923 ° -121.514178 °	38.254910 ° -121.515172 °	38
49	12.88	12.97	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	38.254912 ° -121.515173 °	38.255888 ° -121.516165 °	39
50	13.02	13.02	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	38.256430 ° -121.516825 °	38.256430 ° -121.516825 °	40
51	13.05	13.08	Earthen Levee	Trim / Thin Trees	WS	C	Trim trees to at least five feet above ground level.	38.256710 ° -121.517232 °	38.256958 ° -121.517590 °	41
52	13.10	13.56	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	38.257205 ° -121.517928 °	38.261733 ° -121.523960 °	42

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2009**

**Reclamation District No. 0003 Grand Island**

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 02 Right Bank Sacramento River						Right	17.62	11/20/2009 11/20/2009	Richard Willoughby	
LMR No	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
53	13.25	13.30	Earthen Levee	Trim / Thin Trees	WS	C	Trim trees to at least five feet above ground level.	38.258598 ° -121.519970 °	38.259100 ° -121.520657 °	43
54	13.26	13.29	Earthen Levee	Encroachments	LS	CO	Landscaping	38.258703 ° -121.520160 °	38.259003 ° -121.520557 °	82
55	13.38	13.56	Earthen Levee	Trim / Thin Trees	WS	C	Trim trees to at least five feet above ground level.	38.259953 ° -121.521718 °	38.261793 ° -121.524037 °	44
56	13.72	13.72	Earthen Levee	Trim / Thin Trees	WS	C	Trim trees to at least five feet above ground level.	38.263283 ° -121.526115 °	38.263283 ° -121.526115 °	45
57	13.72	13.75	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	38.263332 ° -121.526183 °	38.263600 ° -121.526532 °	46
58	13.79	13.82	Earthen Levee	Trim / Thin Trees	WS	C	Trim trees to at least five feet above ground level.	38.264067 ° -121.527085 °	38.264395 ° -121.527493 °	47
59	14.00	14.05	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	38.266207 ° -121.529727 °	38.266647 ° -121.530302 °	48
60	14.14	14.14	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	38.267608 ° -121.531587 °	38.267608 ° -121.531587 °	49
61	14.36	14.38	Earthen Levee	Encroachments	LS	PO	Landscaping	38.269642 ° -121.534540 °	38.269882 ° -121.534863 °	50
62	14.57	14.62	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	38.271782 ° -121.537437 °	38.272182 ° -121.537967 °	51
63	14.85	15.19	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	38.274498 ° -121.541015 °	38.278153 ° -121.545318 °	52
64	15.20	15.27	Earthen Levee	Encroachments	LS	PO	Landscaping	38.278237 ° -121.545405 °	38.278930 ° -121.546218 °	53
65	15.28	15.70	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	38.279053 ° -121.546387 °	38.282907 ° -121.552192 °	54
66	15.56	15.56	Earthen Levee	Trim / Thin Trees	WS	C	Trim trees to at least five feet above ground level.	38.281778 ° -121.550115 °	38.281778 ° -121.550115 °	55
67	15.78	15.83	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	38.283623 ° -121.553395 °	38.284095 ° -121.554012 °	57
68	15.83	15.91	Earthen Levee	Encroachments	LS	CO	Landscaping	38.284124 ° -121.554084 °	38.284933 ° -121.555052 °	79
69	15.83	15.83	Earthen Levee	Encroachments	LS	C	Tree or limb	38.284175 ° -121.554085 °	38.284175 ° -121.554085 °	58

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**Flood Control Project Maintenance  
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**Levee Inspection Report By Mile - Fall 2009**

**Reclamation District No. 0003 Grand Island**

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 02 Right Bank Sacramento River						Right	17.62	11/20/2009 11/20/2009	Richard Willoughby	
LMR No	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
70	16.03	16.03	Earthen Levee	Trim / Thin Trees	WS	C	Trim trees to at least five feet above ground level.	38.286278 ° -121.556525 °	38.286278 ° -121.556525 °	59
71	16.45	16.51	Earthen Levee	Encroachments	LS	PO	Landscaping	38.290742 ° -121.561575 °	38.291390 ° -121.562268 °	60
72	16.79	16.88	Supplemental	USACE Erosion Survey	WS	M	Inspector Comments: none	38.295746 ° -121.566244 °	38.294773 ° -121.565325 °	945
73	16.80	16.80	Earthen Levee	Encroachments	LS	C	Tree or limb	38.294680 ° -121.565667 °	38.294680 ° -121.565667 °	78
74	16.84	16.90	Earthen Levee	Encroachments	LS	PO	Landscaping	38.295082 ° -121.566037 °	38.295832 ° -121.566756 °	77

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Right Bank Sacramento River	Right	17.62	11/20/2009 11/20/2009	Richard Willoughby

Levee Mile Report Line	18
Start Levee Mile	5.94
End Levee Mile	6.00
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Oleander on landside shoulder blocking view of levee slope from LM 5.94 to 6.00

richard\_20091104\_15.jpg



Levee Mile Report Line	18
Start Levee Mile	5.94
End Levee Mile	6.00
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Oleander on landside shoulder blocking view of levee slope from LM 5.94 to 6.00

richard\_20091104\_16.jpg



Levee Mile Report Line	21
Start Levee Mile	7.02
End Levee Mile	7.04
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Dense trees at landside toe and shoulder

richard\_20091104\_17.jpg



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Levee Inspections**

**Levee Inspection Report By Mile - Fall 2009**

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Right Bank Sacramento River	Right	17.62	11/20/2009 11/20/2009	Richard Willoughby

Levee Mile Report Line	21
Start Levee Mile	7.02
End Levee Mile	7.04
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Front view of palm trees on landside shouldr

richard\_20091104\_18.jpg



Levee Mile Report Line	29
Start Levee Mile	10.13
End Levee Mile	10.13
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Block/Concrete fence on landside shoulder at LM 10.13

richard\_20091104\_19.jpg



Levee Mile Report Line	29
Start Levee Mile	10.13
End Levee Mile	10.13
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Block/Concrete fence on landside shoulder at LM 10.13

richard\_20091104\_20.jpg



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